ELECTRICAL TIMES

ESTABLISHED 1891

EVERY THURSDAY

VOLUME 142

SUPPLEMENTS TO THIS VOLUME

"SELECTING" — Industrial A.C. Motors — 25 Oct.
— A.C. Contactor Starters — 29 Nov.

MODERN POWER STATIONS

These monthly supplements, intended for separate binding, have included the following stations:—

26 July — Elland and Ferrybridge "B"
30 Aug. — Marchwood and Barony
27 Sept. — Barking "C" and Portishead "B"
11 Oct. — Spondon "H" and Staythorpe "B"
8 Nov. — Hams Hall "C" and Kincardine "A"
13 Dec. — Chadderton "B" and South Denes

INFORMATION FOR LIBRARIANS

Page Nos.	*Date*	*Number*
1— 36	July 5	1
37— 76	July 12	2
77— 110	July 19	3
111— 146	July 26	4
147— 180	Aug. 2	5
181— 212	Aug. 9	6
213— 246	Aug. 16	7
247— 280	Aug. 23	8
281— 318	Aug. 30	9
319— 352	Sept. 6	10
353— 390	Sept. 13	11
391— 438	Sept. 20	12
439— 476	Sept. 27	13
477— 514	Oct. 4	14
515— 554	Oct. 11	15
555— 592	Oct. 18	16
593— 632	Oct. 25	17
633— 672	Nov. 1	18
673— 714	Nov. 8	19
715— 752	Nov. 15	20
753— 792	Nov. 22	21
793— 830	Nov. 29	22
831— 868	Dec. 6	23
869— 906	Dec. 13	24
907— 938	Dec. 20	25
939— 972	Dec. 27	26

Copies of the index are available free of charge to all regular readers on application to

THE ELECTRICAL TIMES LTD.
Sardinia House, Sardinia Street, London, W.C.2.

INDEX TO VOLUME 142

July — December 1962

Accidents — Factories 415
Accidents — Mines 240
Aircraft Cooling 640
Aircraft Electrical Components ... 9
Aluminium Development Assn. 201, 760
Aluminium Reduction, Use of Germanium Rectifiers, C. G. Hawker 762
America — All Electric Homes 95; Anti-Trust — Cables 709; Anti-trust Claims 205; Appliance Industry 586; Changeover Work 347; Colbert Station 621; Computer Arizona Service 228; Computer — Printout 375; Direct Generation 369; Dresden Nuclear Station 254; Gyroscope — Solid State 491; Hanford Thermal 967; Imports 928; Instrument — Automation Conf. 547; Lighting Street 967; Los Angeles Switchgear 175; Nuclear Power — Dresden 254; Nuclear Power 1,000MW 272, 935; Nuclear Reactor Pressure Tube 374; Optical Masers 256; Packaged Combined Cycle Sets 362; Photo Shutter Control 880; Photographing Sparks 688; Printed Circuits — Flash Printing 738; Rampart Canyon 509; Sabine River 863; Superconductors 639; Thermoelectric Panels 623; Transformer Factory 70; Transformers Resin Cast Vapour Cooled 740; Transmission d.c. Visit 427.
Angola — Electricity Authority ... 347
Appliance Sales 26, 104, 135, 239, 340, 381, 503, 703, 821, 857
Appliance Sales. Area Boards ... 99, 203, 467, 580, 781, 897
Area Board Reports 446, 448
Argentina — Power Plans 347; South Dock Fire 275
Association of Public Lighting Engineers 742, 782
Barbican Scheme 655
Conference 409, 455
Exhibition 406
Presidential Address 409
Association of Supervising Electrical Engineers 746, 966
European Common Market ... 573
Presidential Address 574
Atomic Energy Authority ... 201, 206, 583
Report 57
Austenitic Cast Irons 653
Australia — Bell Bay Aluminium 762; Imports 388; Snowy Mountains Expansion 901; Snowy Mountains Report 824.
New South Wales — Control Centre 347; Manning River 347; Maximum Demand 471; Munmorah Ash Disposal 70; Sydney Report 787; Transmission 471; Vales Point 787.
Northern Territories — Darwin Steam Station 70.
Queensland — Brisbane Transfer 313, 549, 967; Calcap Station 275, 471, 967; Collinsville Station 863; Power Needs 241; Transmission Lines 901.
South Australia — Torrens Island 863; Transmission Lines 935.
Tasmania — Power Plans 141; Pumped Storage 385.
Victoria — Hazelwood Power Station 31; Plans 209; Transmission Lines 549.
Western Australia — Northern Areas 431; N.W. Coast 313; Tidal Power 241, 627.

Authors:
Anderson, E. W., P. F. Gunning and P. Schiller, Heating Telecontrol 517
Ashton, N., Capacitor Voltage Transformers 441
Aylett, P. D., and H. I. J. Goldberg, Small Computers ... 215, 291
Baines, A. P., Mercury-Arc Converter Drives 219
Bartho, A. D., Arc Furnace Control 871
Bhagwat, P. G., and R. K. Simmonds, Impedance Comparator 877
Botten, H., Lighting Maintenance 773
Brook, E., and J. S. Haggitt, Aluminium Transformer Tanks ... 183
Cory, B. J., Laboratory Installation 755
Court, B., Valve Replacement Care 224
Cox, R. C., Magnet Sealing ... 375
Craig, D. W. R., Kariba Carrier Communication 249
Crisp, J., Building Site Supplies 3
Cruikshanks, H. K., Kariba Carrier Communication 359
Ellison, A. J., Generalised Electrical Machines 486, 536

Authors—Continued

Flood, J., Emergency Supply Isolation 358
Goldberg, H. I. J., and P. D. Aylett, Small Computers 215, 291
Goodier, G. T., Lampholders ... 283
Gracey, C. G., Conductors for 400kV. 229
Griffin, J., Synchronous Motors ... 833
Grundy, J. T., Exterior Lighting... 393
Gunning, P. F., E. W. Anderson and P. Schiller, Heating Telecontrol 517
Haggitt, J. S., and E. Brook, Aluminium Transformer Tanks ... 183
Hawker, C. G., Semi-conductor Rectifiers for Aluminium ... 762
Heaton, F. H., Early Days Short Circuit Testing 909
Hill, L. G., What is a Lumen?... 808
Hubble, L. H., Lighting Shops ... 635
Levy, J. F., and D. D. Stephen, Generalised Electrical Machines 613
Maddock, E. G., and G. J. Potter, Exterior Lighting 402
Mellanby, J., Wiring and Building Methods 941
Parry, D. H., Domestic Load Factor 601
Parton, Prof. J. E., Generalisation in Electrical Theory ... 155, 196
Paddie, R. A., Nuclear Power Reactor Operation 39
Potter, G. J., and E. G. Maddock, Exterior Lighting 402
Schiller, P., Domestic Tariffs ... 479
Schiller, P., E. W. Anderson and P. F. Gunning, Heating Telecontrol 517
Simmonds, R. K., and P. G. Bhawat, Impedance Comparator 877
Sreenivasan, J. V., C.B. Arcing... 372
Stephen, D. D., Testing Synchronous Machines 257, 323
Stephen, D. D., and J. F. Levy, Generalised Electrical Machines 613
Switzman, J., Analogue Study of A.V.R. 675
Wilkinson, K., Splitphase Motors 795, 847
Wood, G. B., Kariba Carrier Communication 79, 125
York, R. A., Live Line Maintenance 149

Bahamas — Power Loan 347
Bahrain — Cables 31
Basutoland — Power Loan ... 105
Batti Wallahs 28, 174
Belgium — Monceau Computer Control 901
Birmingham Electric Club 625
Boiler Explosions 680
Bolivia — River Corani H.E. ... 549
Brazil — H.E. Survey 824; Nuclear Plan 70; Parana 208; Santa Catarina 208; Sobradinho 787; Supply Central Control 105.
British Assn. 334, 371
British Coal Utilisation R.A. ... 566
British Conference on Automation and Computation 622
British Electrical and A.I. Research Assn.:
Cable Ratings p.v.c.a 580
Programmes 203
British Electrical and Allied Mnfrs. Assn. 270, 272
Advertising Competition 744
Appliance Statistics ... 135, 821
Contract Formulae 108, 278, 436, 590 789, 937
European Common Market ... 573
Exhibitions 337
Publicity Conference 468
British Electrical Approvals Board 99, 429, 964
British Industrial Measurement and Control 511
British Industrial Truck 436
British Institution of Radio Engrs.... 173
British Iron and Steel Research ... 8
British Lighting Council 74
Productivity Lighting 574
British Nuclear Energy Society: Nuclear Anniversary 850
British Radio Eqpt. Mnfrs. ... 274
British Railways:
Chelmsford — Colchester ... 67
Diesel Locos — Single Engine ... 888
Electrification Symposium ... 55
Euston — Crewe Order 928
Glasgow Revenue 705
Southern d.c. 851
Thermometer Contact Control ... 128
Train Reporting 623
British Standards Institution:
A.G.M. 502
Floor Warming 701
Lighting Laboratory 428
Motors F.H.P. 502
Room Heaters 129
Specifications ... 129, 502, 701, 775
Transformers — Isolating ... 775
British Welding Research 172
"Builder" Survey 764
Building Construction 899
Building Site Supplies. J. Crisp ... 3
Bulk Buying Groups 239

Cable — Channel 466
Cable — Composite Sheath ... 235
Cable Industry 745
Cable Makers Assn. 615
Lighting Cables 185
Cables — Lighting 185
Cables p.v.c. — Cold Warning ... 615
Canada — Exports 509; Industrial Voltage 208, 347; Industry 70, 385, 666; Nuclear Power 208; Nuclear Prospects 798; Power Export 587, 709; Transmission Grid Study 587; Transmission 500kV. 209, 275.

Canada—Continued

Alberta — Big Ben 312; H.E. Plans 787.
British Columbia — Emergency Supplies 208; Peace River 175, 208, 312, 385, 627, 935; Power Exchange 471; Transmission Lines 175; Vancouver Supply 863.
Manitoba — Grand Rapids, 241, 901; Nelson H.E. 967; Transmission 967; Winnipeg Report 431.
New Brunswick — Power Plans 471.
Newfoundland — Transmission Lines 241.
Nova Scotia — Gold River 587; Tuft's Cove 509, 863.
Ontario — Delphi Pumped Storage 312; E.P.C. Report 619; Lakeview Opening 31; Nuclear Prospects 798; Otter Rapids 208, 901; Toronto 385; Transmission 500kV. 209, 747.
Quebec — Carillon H.E. 241; Nationalisation? 140, 471, 627, 787, 863; P.C. Finance 208; St. Maurice 208; Transmission Lines 275, 935.
Saskatchewan — Squaw Rapids 709.
Capacitor Voltage Transformers, N. Ashton 441
Carrier Communication at Kariba, G. B. Wood, D. W. R. Craig and H. K. Cruikshanks 79, 125, 249, 359
Census of Distribution 239
Central Electricity Generating Board:
Bolney Plant 100
Hinton Cups 271, 309
Midlands Region H.Q. 99
Report 416
System Peak Demand 895
Transformer Orders 67
Transmission Reorganisation ... 857
Ceylon — Power Report 863
Chairmen Report 63, 495
Chile — Huasco Thermal 667
C.I.G.R.E. 25
Circuitbreaker Arcs, J. V. Sreenivasan 372
Computer "Atlas" 882
Computer Control Power Stations 780, 860
Computer Control Steel Rolling ... 343
Computer Study of A.V.R., J. Switzman 675
Computers, Small, P. D. Aylett and H. I. J. Goldberg 215, 291
Consumer Protection Report ... 163
Consumers Assn. 68, 204, 382
Cooker Design 779
Cooling — Chocolate 94
Copper Development Assn.: Commutator Symposium 575
Costa Rica — Power Loan 312
Coventry Swimming Pool 64
Crystal Palace Exhibition Site ... 236
Cuerdley Power Station 236
Cyprus — Water Plan 31; World Bank Loan 780.

Denmark — Nuclear Power ... 935
Department of Scientific and Ind. Research 153, 662, 778; Road Research 159.
Design Protection 270
Diesel Generators — Standby ... 228
Diploma in Technology 172
Direct Sales 544, 581, 620, 663
Survey 620
Domestic Load Factor, D. H. Parry 601
Dominican Republic — San Domingo Loan 208
Dordec ... 64, 173, 544, 660, 897
Dounreay — on Load 595
Dungeness Nuclear Station 255

Early Days Short Circuit Testing, F. H. Heaton 909
Earthing Continuity 663
East Midlands E.B. 272, 308, 383
Areas 702
Tariffs 383
Eastern Electricity 819
Basildon Showroom ... 136, 286
Changeover Inquiry 859
Consultative Council ... 102, 430
Heaters Block Storage 464
Peterborough Reinforcement ... 102
Survey 286
Egypt — Imports 666
Eire — Bellacorick Station 702; E.S.B. Report 95, 104; Industry 171; Kilmokea Station 620; Power Programme 104.
Electric Light Fittings Assn. ... 929
Electrical Assn. for Women 706, 822
Electrical Contractors Assn. ... 821
Molony Comment 204
Operative Discharge Rules ... 340
Electrical Development Assn. 65, 102, 138, 468
Heating Campaign ...269, 383, 819
Industrial Development Conference 726
Electrical Industries Benevolent Assn. 139, 274, 664
Ball 729
Electrical Industries Club 104, 430, 582, 785, 933
Electrical Power Engrs. Assn. ... 822
Electrical Trades Union ... 104, 384
Cable Fixing Agreement ... 894
President Expelled 66
Rule Changes 545, 581
Electrical Wholesalers Federation... 428
Electricity Council:
Graduates Employment 231
Report 416
Statistics 341, 930
Electricity Supply Handbook ... 345
Electricity Supply Research ... 102
Electronics Ind. Supply Board ... 379
Engineering Education and Trng.... 24
Engineering Industries Assn. ... 661
Engineering Institutions Joint C. 545, 622
Engineers' Guild 820
European:
Aluminium Industry 760
Common Market 573
Electricity Committee 544
Free Trade Area Tariffs 624
House Heating 218
Patents 781
Supply Comparisons 285
Union of Electrical Wholesalers... 28
Exhibitions and Shows:
A.P.L.E. 406
Crystal Palace Site 236
Czechoslovakian 138
Dairy Show... 662
Do-It-Yourself 383
Domestic Heating 506
Electrical Engineers 741
Factory Equipment 463
HEVAC 496, 547
Ideal Homes 817
International Refrigeration ... 27
Nigerian Trade Fair ...337, 507, 665
Process Heating 703
Public Works 782
Radio Show 300, 466
Royal Show... 65
Royal Welsh 138
S.B.A.C. 327
Export Credits Guarantee Dept. 205, 662
Exports and Imports 165, 299, 501, 654, 811

Factories:
Coil Winding 482
Control Gear 543, 914
Cooker 134
Fuseless 355
Lamp at Enfield 641
Meters 874
Paper Coating 333
Shirt Manufacture 717
Transformer 914
Turbine 944
Factory Equipment Exhibition ... 463
Fair Isle Supplies 102
Faraday Hse. 640
Farnborough Exhibition 327
Federation of British Ind. 585
Crystal Palace Exhibition Site ... 236
Finland — Power Loan 275; Railway Plan 747.
Films 861
Fire Protection Assn. ... 34, 665
Fire Research 48, 881
Fish Farming 664
France — Imports 343; Power Plans 140; Voltages — Appliance 859.
Frequency Changer 100kVA ... 481
Furnace — Roller Hearth 224
Furnaces — Aero Steel 94
Furnaces — Brass Strip 539
Fuseless Factory 355

Gas Industry 238, 582, 583, 897
Gas Turbines 270, 288, 506, 563, 661, 702, 744, 774, 819
Generalisations in Electrical Theory, Prof. J. E. Parton 155, 196
Generalised Electrical Machines:
A. J. Ellison 486, 536
D. D. Stephen and J. F. Levy ... 613
Generation Unconventional... 363, 369
Germany — Link with Scandinavia 709; Nuclear Power 312; Refrigerator Market 385; Supply Ind. Relations 586.
Ghana — Industry 627; Purchase Tax 709.
Granite Quarry Supply 921
Greece — Industry 140; Kemasta H.E. 901; Grid Planning 799.
Guatemala — H.E. Survey 275

Heating:
Block Storage 202, 962
Block Storage Campaign 269, 464, 505
Brass Annealing 294
Floor 102, 503, 583, 662
Floor — Birmingham Survey ... 660
Greyhound Tracks 28
Industrial Conference 726
Process Symposium 26
Road 581
Storage, Ducted Air 26
Tariffs, Domestic, P. Schiller ... 479
Telecontrol, E. W. Anderson, P. F. Gunning and P. Schiller... 517
Ventilating and Air Conditioning Exhibition 496, 547
World 803
High Marnham Power Station ... 527
Hong Kong — Hok-Un Station 863; Luxury Hotel 899; Nationalisation? 105, 313; Power Programme 667.
Hospital Engineers 30
House Building 236
Hungary — Oroszlany Plant 208; Szazhalombatta 600MW 312.
Hydraulic Turbine "Deriaz" ... 101
Hydraulics Research Report ... 7

Illuminating Eng. Society 582, 704, 706
Colour Rendering 923
Lighting in Daylight 456
Presidential Address 535
Impedance Comparator, R. K. Simmonds and P. G. Bhagwat ... 877
Imperial College Research 948
Import Duties 663, 861
India — Assam Gas Turbines 141; Bombay Power Cuts 105; Cable Factories 901, 935; Cauvery 1000MW H.E. 587; Chandrapura Loan 627; Delhi Supply 208, 275, 347, 509; Industry 31, 70, 141, 175, 209, 241, 347, 385, 471, 666, 901; Jamina H.E. 312; Kalpakkam Nuclear 935; Koyna Extension 209, 275; Madras Ennore Plant 175; Madras Mettur Tunnel Ext. 31; Madras Planning 431; Madras Power 70, 509; Marathwada 60MW 175; Mysore Diesels 208; Neyveli Opening 140; Nuclear Power 141, 241, 312, 347, 469, 587, 824, 935; Power Planning 208; Purna Loan 141; Rana Pratap Nuclear 312, 347, 587; Rihand Commissioned 429; River Ravi 175; Rural Supplies 471, 863; Salal H.E. 175; Satpura Loan 863; Siting Thermal Stations 209; Tarapur Nuclear 469, 241, 824; Thermal Power 627; Trombay Loan 627; West Bengal Station 431; Yamuna H.E. 209.
Indonesia — H.E. Survey 313
Industrial Outlook and Orders 26, 311, 426, 506, 585, 663, 819, 963
Industrial Trng. Council 272
Institute of Advanced Studies ... 136
Institute of Fuel:
Combustion Research 840
Institution of Civil Engs. 545
Marchwood Wood-borers ... 573
Presidential Address 705
Water Conservation 739
Institution of Electrical Engrs. 428, 507
Aircraft Maintenance 725
Cables, Plastics Symposium 684, 734
Centre Jubilees 585
Computers Process Control ... 533
Council and Chairmen 160
Education 307
Electronic Reliability 723
Local Centre Addresses ... 533, 605
Magnetohydrodynamic Symposium 363
National Certificates 819
Premiums 161
President and Chairmen 460
Presidential Address 562
Publications 308
Railway a.c. Electrification Symposium 55
Railway d.c. "Southern" 851
Satellites, Communications ... 802
Wiring Rules Amendments 164, 289
Education Gp. 705
Electronics:
Communications Satellites ... 802
Plugs and Sockets 880
Power Division:
Chairman's Address 658
Grid Planning 799
Severn Crossing Galloping Conductors 956
Transformer Magnetic Flux ... 946
Science and General:
Computer Applications ... 733
Thermo-electrical Eng. ... 915
Institution of Industrial Safety Officers 272
Institution of Mechanical Engrs.:
Power Station Development ... 911
Turbine Design 719
Institution of Nuclear Engrs. ... 706
Institution of Production Engrs.:
Lighting 920
Insulator, Lightning Breakdown ... 261
International Electrotechnical Commission 116
Standards 775
Iraq — Baghdad Station 120MW 275, 747; Transmission Grid 747.
Isle of Man:
Douglas Report 381
Isolation Emergency Supplies, J. Flood 358
Israel — Imports 894; Sea Water Refrigeration 545.
Italy — Domestic Appliance Industry 856; La Spezia Boiler 549; Latina 101, 929; Nationalisation 312, 471.

Japan — Exports 341, 783; Nuclear Power 29; Okutadami H.E. 70; Plans 471.
Jubilees:
Belling and Co. 342, 577
Meters 425
Permali Ltd. 19
South Wales Switchgear 370

Kariba Carrier Communication, G. B. Wood, D. W. R. Craig and H. K. Cruikshanks 79, 125, 249, 359

Laboratories:
Aircraft Components 9
Aircraft Cooling 640
Combustion Research 840
D.S.I.R. High Temperature ... 485
Imperial College, B. J. Cory 755, 948
Mullard at Salfords 50
Testing — High Power 524
Lamp Campaigns 457
Lampholders, G. T. Goodier ... 283
Lamps, Mushroom 801
Laser Crystals 343
Lead Conference 69, 504, 597
Legal:
Altnabreac Plant Sale 963
Cable Damage by Plough ... 746
C.E.G.B. v. Halifax ... 622, 702
Cow Electrocution Claim... ... 661
Derelict House Death 896
Drakelow Pollution 469
Fuel Fraud — Kingston 704
G.E.C. Trade Mark Injunction ... 202
Hire Purchase Deposits 239
Hire Purchase Frauds 103
Iron Connectors not to B.S.S. ... 100
Linesman, Metal Tape Death ... 382
Purchase Tax Frauds ... 174, 742
Resale Price Maintenance... 271, 308
Transformer Oil Drained Fines ... 547
Trawsfynydd Contracts 662
Lift Installation Report 745
Lighting:
Artificial Sky — Cambridge ... 85
Cables for 185
Coventry Cathedral 399
Damage Publicity 427
Daytime 456
Design, L. G. Hill... 808
Exterior, J. T. Grundy 393
Exterior Fluorescent, E. G. Maddock and G. J. Potter 402
Fitting Cooling 398
Horne Floodlighting 415
Hyde Park Underpass 602
Planned Maintenance, H. Botten 773
Productivity 574, 920
Shops, L. H. Hubble 635
Street 240, 274, 310, 783
Street Basics 409
Lightmongers 742
Live Line Maintenance 750kV. ... 947
Live Line Maintenance, R. A. York 149
Load Shedding 271
London C.C. 817
London E.B. 101, 583
Catering Centre 28
Consultative Council 930
Deposit Scheme 544
London Floodlighting 271

London Transport 27, 343
Faraday Substation 139
Heating Rails 897
Report 205
Victoria Line 269
Luxemburg — Pumped Storage 1,100MW 935.

Magnetic Field Reversal 67
Magnets, Lifting, Sealing, R. C. Cox 375
Malaya — Cameron Highlands ... 313
Maintenance Organisation — Mining 93
Marchwood Wood Borers 573
Masers, Optical 256
Mauritius — C.E.B. Report 31; Plant 666.
Mercury Arc Converter Drives, A. P. Baines 219
Malaya — Malim Nawar Extension 175
Mergers, Take-overs and Co-operatives 270
Auto Control Eng. — Hartons ... 858
Batteries — A.E.I. — Chloride ... 545
Coiled Metal Processing 25
Core Link-up 929
Dorman and Smith — Britmac ... 236
Electric Elements (Willenhall) 134, 202
Electric Transmission — BICC ... 929
Electroloid — W. Canning ... 134
Grampian — Wallacetown ... 426
Hampson Ind. — V. G. Howell ... 552
Heatrae — Centramatic 64
Kent, Geo. — Alto Instruments ... 743
Krupp — Richardsons, Westgarth 205
Londex — Elliott Auto 202
Morris, John — Josiah Smale 704, 823
Rank Bush Murphy 932
Rolls — Prestcold 469
Rolls Razor — Duomatic ... 202, 307
Royston — Vidor 545, 620
Welding, E. E., and Arc Mnfg. ... 743
Merseyside and N. Wales E.B. ... 269
Appliance Sales 965
Reinforcement 65, 426, 506, 743, 962
Tariffs 100, 135
Meter Legislation 857
Mexico — Diesels 627
Midlands E.B. 468, 818
District Amalgamation 544
Lydney Remote Control 862
Service Centre, New Style ... 272
Tariffs 584
Test Centre 193
Mine Explosion Report 784
Mines Research 913
Modern Materials 133, 201, 235, 302, 368, 465, 579, 815, 961
Molony Committee Report ... 163, 204
Motor, Slip Power Recovery ... 20
Motors, Linear, for Traction ... 759
Motors, Split Phase, K. Wilkinson 795, 847
Motors, Synchronous, J. Griffin ... 833
Muscat — Power Scheme 312

National Automation Centre ... 661
National Chamber of Trade ... 340
National Elec. Contractors T.A. ... 99
Retailing Conference ...273, 309, 451
National Inspection Council for E.I.C. 204, 663
Annual Lunch 688
Inspections Drive 99
Lamps, Mushroom Attack ... 702
National Institute for Research in Nuclear Science 662
National Joint Advisory Council ... 308
National Productivity Year 838
National Retailers' Council ... 780
National Society for Clean Air ... 584
Netherlands — Exports 549; Imports 108.

New Literature:
A.C. Devices with Iron Cores ... 768
Acetal Resins 414
Analogue Computing at Ultra High Speed 846
British Canadian Trade Register 650
Cle des Schemas Electriques Etude Logique des Circuits 414
Colliery Year Book 124
Commissioning of Electrical Plant 192
Conveying Ideas 693
Efficiency in Today's Factory ... 124
Electric Lighting 955
Electric Machine Analysis Using Matrices 693
Electrical Encapsulation 846
Electrical Instruments 886
Electrical and Mechanical Networks 192
Electricity in Industry 332
Electricity Undertakings 955
Electronic Instruments 414
Electronic Rectification 265
Electroplating Engrs. Handbook... 332
Engineering and Scientific High Speed Photography 192
Examples in Advanced Electrical Engineering 332
Fehlerortungen 650
Firing Requirements for Silicon-controlled Rectifiers 14
Fundamentals of the Laplace Transformation 90
How to Export 707
Introduction to Advanced Electrical Engineering 90
Lead and Lead Alloy Cable Sheathing 72
Lighting for Life 192
Lighting for Productivity ... 574
Marine Electrical Practice ... 693
Mesures Electriques et Electroniques 14
National Directory of Nigeria ... 265
Network Analysis and Synthesis... 265
Pictorial Guide to Electrical Installation Practice 192
Plastics Mould Design 124
Power Systems Engineering ... 162
Press of a Switch 650
Protective Relays 886
Radar Pocket Book 72
Radio Engineer's Pocket Book ... 298
Radio Television Retailers Handbook 14
Revolution in Electricity 650
Second Year Electric Installation Practice 124
Semi-conductor Reliability ... 846
Silicones 768
Solutions of Problems in Electrical Machines 162
Television Receiver Servicing, Pt. 2 14
Via Vector to Tensor 650
Welding Handbook, Pt. V ... 414
Wonder of Light 650
World Railways 1961/62 72
Year Book of the Heating and Ventilating Ind. 72
Young Man's Guide to Electrical Engineering 768
New Zealand — Aluminium Plant 709; Auckland Cables 66; Auckland Report 666; Aviemore H.E. 747, 760; Cook Straits 31, 105, 935; Hutt Valley Report 509; Imports 745; Japanese Cables 66; Off-Peak Heating 667; Power Bill 967; Reports 188, 347, 357; Southern Lakes Scheme 587; Transmission Lines 70; Waipori No. 2 935; Wairakei 30MW Set 667.
Nigeria — Akankpa Diesels 174; E.C. Report 709; Ijora Gas Turbines 901; Trade Fair 337, 507, 665, 703; Transmission 509.

Norfolk Electrical Circle 860
North Eastern E.B.:
Areas 702
Consultative Council ... 66, 581
Development Programme... ... 68
North of Scotland H.E.B.:
Consultative Council 893
Fair Isle Supply 427
Fault Locator 204
Livishie H.E. 894
Loch Ericht H.E. 237
Mucomir Station 308
Strathfarar and Kilmorack Scheme 744
Transmission Lines ... 26, 379
Utilisation Task Force 621
North Western E.B.:
Tariffs 170
Northern Ireland:
Belfast Report 311
Cable Tenders 236
E.B. Report 64, 100
E.B. Tariffs... 64
Power Station Sites 505
Transmission Lines 341
Norway — Halden Reactor 203; Sira-Kvina Aluminium 549; Water Resources 241.
Nuclear Power:
Canada 798
Overseas Prospects 458
Proton Synchrotron NIMROD ... 262
World Progress 651
Nuclear Power Stations:
Berkeley 46, 702
Bradwell 25, 46, 321, 702
Bradwell Reactor Operation, R. A. Peddie 39
Dungeness 29, 255
Hinckley Point "B" ... 170, 379
Hunterston 964
Oldbury 238, 860
Sizewell 379
Trawsfynydd 205
Wylfa 236, 379

Nuclear Reactors:
Consort 850
Dounreay 237, 595
Dragon 481
Merlin Offer 202
Operation, R. A. Peddie 39
Terminology 45
Windscale A.G.R. 237
Winfrith Conveyor 889

Ordinary National Certificate ... 307

Pakistan — Baltit H.E. 935; Changeover Work 312; Distribution Loan 709; Five Year Plan No. 2 587; Gas Fired Stations 967; Imports 27; Industry 471, 747, 824; Karachi "C" 747; Korangi Station 175, 787; Mangla 275, 509; Nuclear Power 241, 627, 666; Power Survey 347, 863; Rural Electrification 275; Steel Mill Supply 787; Sukkar Thermal 175; Transmission Lines 209, 709.
Panama — Power Loan 431
Paper Mill H.P. Set 924
Paraguay — Hydro Loan 935
Parliamentary:
Apprentices Plan 895
Atmospheric Pollution 931
British Railways Productivity ... 26
Building Contracts Committee ... 702
Consumer Protection 172
Consumer Protection Report ... 163
Day Release Inquiry 741
Diploma in Technology 933
Durham Power Station 99

Parliamentary—Continued
Employment Bill 933
Euratom 138
Exports 965
Fires 930
Fuel — Dual Firing 857
Gas Industry 134
Hire Purchase 28
Hire Purchase Bill... 857
Meter Legislation 857
Meter Siting 100
Molony Committee Report ... 163
Monopolies 170
Motorway Signs 784
National Parks Report 861
Nationalised Ind. Finance ... 170
Navy Manpower 203
Nuclear Power:
Capenhurst Run-down 821
Capital Costs 962
Cost per Unit 103, 897
Reactor — Advanced — Probe 895
Reactor — Dragon 782
Reactor — Merlin 202
Reactors Research ... 203, 820
Station Dismantling 171
Station Life 206
Uranium 28, 171
USSR Co-operation 820
Waste Disposal 172
Pilkington TV Report 29
Post Office Buying... 170
Rates — Electricity Board ... 174
Refrigerator Marking 172
Resale Price Maintenance ... 29
Resale Price Maintenance Inquiry 780
Science and Industry 101
Scottish Power Stations 781
Scottish Supply Inquiry 28, 66, 100, 781
Report 681
Shops and Offices Bill ...661, 704, 783
South of Scotland Finance 705, 818, 931
Supply Industry Finance 743
Television — Pilkington Report ... 29
Television Proposals 66
Television Report 964
Tenders — Firm Price 929
Towers Radio 964
Wages, Supply Industry 173
Water Resources Bill 741
Weights and Measures Bill 706, 785
Patents Progress:
Cable Trunking Fittings 295
Cables, C.A.S. 604
Capacitors 604
Circuit-breaker Compensated ... 154
Circuit Protection 917
Cooker Controls 765
Fluorescent Lamp Circuits ... 917
Fuel Cells 765
Fuses, Cartridge 604
Generation Thermionic 11
Insulators — H.V. 11
Insulators, Resin in C.B's ... 452
Lamps — Discharge 765
Motors — Superconducting ... 452
Overload Protection 452
Relay — Distance 11
Rotor Keys — Locking 452
Short Circuit Detection 604
Thermo-electric Cooling 154
Philippines — Diesels 471; Maria Cristina H.E. 747.
Photographing Spark Formation ... 688
Piped Coal — Wakefield 101
Pitch Fibre Pipe Assn. 21
Poland — Appliance Saturation ... 347
Power Line Carrier Systems at Kariba, G. B. Wood, D. W. R. Craig and H. K. Cruikshanks 79, 125, 249, 359
Power Station Operation in Australia 732
Power Station Sites 68, 170, 203, 238, 503, 584, 817, 857
Power Stations:
Aberthaw "B" 134
Aviemore H.E. (New Zealand) ... 760
Belvedere 567
Chimney Grit Emission 273
Clarence Dock 271
Cuerdley 236, 584, 661, 859
Fawley 429, 898
Ferrybridge "C" 271
Future Trends 911
Gas Turbines 661, 744
Halifax 383
High Marnham 527
Ironbridge "B" 99, 817
Kearsley 103
Kilmorack 857
Kincardine "B" 206
Kingsnorth 580
Loch Ericht 237
Marchwood 573
Mucomire 308
Oil Conversions 743
Padiham "B" 237
Ratcliffe 203, 238, 270, 384, 428, 741
Skelton Grange "B" ... 610, 661
Smoke Control 27
Strathfarar and Kilmorack 744, 857
Taylors Lane 857
Thorpe Marsh 965
Tilbury "B" 780, 860
Trends — World 694
Uskmouth "B" Fire ... 466, 505
West Burton 29, 271
West Thurrock 20, 26
Power Supply 169, 303, 459, 659, 816
Power Supply, 1961, Statistics ... 59
Printing Presses Rectifier Controlled 490
Production Line Remote Control ... 91
Productivity Conference 838
Purchase Tax 237
Purchasing Officers Assn. 474

METEOR

Amenities 832
Alternator Unit Size 247
American Domestic Campaign ... 478
American Power Stations 634
Appliance Ideas 908
Appliance Statistics — Overseas ... 111
Apprentice Training 869
Atmospheric Pollution 870
Atomic Energy Authority Report ... 37
Blanket Fire Risks 37
Board Area Titles 248
British Electrical A. Mnfrs. Assn. ... 111
British Railways 25kV. System ... 38
British Standards Institution ... 478
Building — Consultant's Place ... 753
Cable Jointing Fundamentals ... 715
Cables for Lighting 181, 674
Cables P.V.C. 556, 674
C.E.G.B. Report 391
Clean Air Act 939
Computers 214, 870
Consumer Protection 147
Cooker Sales 354
Cooling Tower — Dry 940
Demand Doubling 794
Domestic Appliance Testing ... 147
Double Insulation 633
Earthing 1, 319, 354
E.D.A. Heating Campaign 247
Education 320, 477
Electronic Reliability 716
European Common Market ... 555
European Supply Expansion ... 281
Exhibition Hall — Crystal Palace ... 213
Factory Supplies 516
Farm Cabling 870
Fire Risks 869
Fuse or M.C.B. 354
Gas Industry 248
Gas Turbines 281, 555, 907
Generation Direct 908
Generation in Space 214
Graduates in America 940
Graduates in Supply 214
Grid Control 440
Heating Control — Telephone ... 515
Heating Floor Birmingham Report 633
Heating — by Gas? 556
Heating Load Control 78
Heating Off-peak Plan ... 247, 392
Heating Surcharge Urged 477
High Marnham Power Station ... 515
Industry, Service to 182
Institution of Electrical Engrs. ... 478
10,000 Membership 716
Institutions' Joint Council 516
Interest Rates 831
Italy — Plant 440
Italy Nationalisation 2
Kariba Communications 78
Lamps Mushroom Ban? 674
Lead Future 594
Lampholders — Overheated ... 282
Lighting Cables 181
Lighting Colour Rendering 908
Lighting Factories 282
Lighting Offices 440
Lighting Outdoor 392
Lighting Shops 634
Lightning Theory 320
Live Line Working 148, 940
Mackenzie Report 675
Magnetohydrodynamic Power ... 353
Maintenance Preventative 78
Management Engineers 556
Meter Reading — Remote 112
Motors Linear 754
Nigerian Trade Fair 320
Nuclear Power:
Anniversaries 832
Dounreay Future 593
Gas-cooled Reactors ... 38, 440
Station Supers 319
Stations on Load 37
Unit Size 248, 440
Uranium 235
Ordinary National Certificate ... 320
Parliamentary Retrospect 182
Power Station Design 515
Power Stations Clean Air Cost ... 2
Productivity 831
Ratcliffe Amenities 353
Resuscitation 182
Research 148, 392
Retailer Representation 753
Road Research 148
Rural Supplies 111, 148
Safety — Building Sites 2
Satellite Power 214
Scientific Manpower Survey ... 634
Scotland — One Board ... 673, 754
Selecting — Electrical Equipment ... 594
Selecting — Starters 794
Shops and Offices Bill 674
South Western E.B. Guarantee ... 593
Standardisation 112
Static in Hospitals 319
Steelmaking 516
Supply Ind. Finance 716
Supply Ind. Reports 391
Symbols 754
Tariffs 111, 339, 793
Technician Shortage 77
Testing Machines a.c. 248
Transmission — Severn Crossing ... 939
Transmission Time Scale 793
Transmission 400kV. 213
Water Heating — Off Peak 38
Water Supplies 715
Wiring Regulations 181, 282
Wiring by Rising Floors 77
World Power Resources 908

Radio Show 300
Radio and TV Retailers 173, 381, 581, 704
Fighting Fund 620, 857
Retailing Organisation 780

Readers' Views:
Abbreviations 683, 722, 761
Aluminium Cable Jointing ... 484
Architects and Consulting Engrs. 841
Blankets and Fire Risk 117
British Electrical Approvals Bd.... 187
Building Site Supplies 117
Cable Protection by M.C.B's ... 600
Earth Leakage Core Balance Trip 290
Floodlighting for Sport 117
Fylingdales Payment 566
Heaters, Block Storage ...445, 483, 842
Heating Centre Advice 10
Heating — Fire Risk 943
Higher National Certificate ... 913
Hospital Engineers 86
Hospital Flooring 445
Insulated Earth Conductor ... 841
Joist Drill 118
Lamps — Indicating 218
Lamps — Mushroom ...722, 842, 876
Lighting Cable Temperatures ... 322
Lighting — Christmas Tree ...10, 86
Lighting — Domestic 565
Lighting — Fluorescent, Norm. 86, 187
Lighting — Operating Theatre ... 599
Mackenzie Calculations 841
National Inspection Council 683, 722, 761
Plugs — Moulded 290, 642, 761
Preventing Fires 913
Rectifier Instruments 218
Rewinding Lifting Magnets ... 445
Ring Main Plaster Depth ... 322
Schools Supplies 445
Selecting 913, 943
Site Electricians 86, 187
Sockets — Bathroom ... 842, 876
Tariff Policy 520, 565, 599, 642, 683
Tariffs 483
Training Supervisors 566
Water Heating 117, 218, 290
Wages 566
Wholesalers — Direct Selling ... 876
Wiring Connections 599
Wiring Cost 10
Wiring Practice ... 494, 520, 565, 599
Rectifier Contact Thermometer Control 128
Rectifiers, Semi-conductor for Aluminium Production, C. G. Hawker 762
Remote Control — Production ... 91
Resale Price Maintenance ... 703, 780
Rhodesia and Nyasaland — Congo Border P.C. Report 141; Diesels 275; Imports 34, 307; Industry 175; Kariba Communications 79, 125, 249, 359; Lusitu River H.E. 824; Lusaka Report 312, 901; Power Finance 105; Railway Loco Hire 627; Salisbury Finance 385, 431.
Road Research 159
Royal College of Science 705
Royal Society of Arts 310
Russia — Bratsk H.E. 901; Budget Report 935; C.E.G.B. Delegation 65; Generator M.H.D. 135; Kremenchug H.E. 241; Pauzhetka Geothermal 935; Power Visit 545; System Re-organisation 509; Transmission 587, 666, 901.

Safety — Building Sites, J. Crisp ... 3
Safety in Mines Research 683
Satellite — Telstar 118, 238, 664
Scientific Instrument Mnfrs. Assn. 866
Scotland — Mackenzie Report ... 681
Semi-conductors 289
Semi-conductors — Press Drive Control 490
Ship "Cape Otranto" 20
Ship "Mercury", Cablelaying ... 128
Ship "Northern Star" 15
Ship, Trawler "Junella" 188
Signs for Motorways 804
Singapore — Pasir Panjang "B" 787; Reports 209, 431.
South Africa — Cape Town Athlone Opening 105, 312; Cape Town Report 31; Cape Town Stations 313; Distribution Reinforcement 431; Escom Camden Station 431, 587, 824; Escom Report 59; Imports 108; Industry 509, 623; Orange River H.E. 275; Steam Station Largest 105; Transmission 312; Usutu River H.E. 824.
South Eastern E.B.:
Portslade Showroom 963
South of Scotland E.B. ...341, 547, 931
Cockenzie 929
Consultative Council ... 27, 898
Devol Moor Substation 67
Edinburgh Reinforcement 582
Grangemouth Supply 931
Methill Station 308
Nuclear Power 503
Off Peak Meters 470
Off Peak Tariffs 818, 894, 962
Reinforcement 27, 383, 582
South Wales E.B. ... 104, 173, 202, 468
Gas Turbines 819
South Western E.B. ... 309, 379, 468, 818
Appliance Guarantee 620
Consultative Council ... 930, 963
Gas Turbines — Mobile 774
Rural Supplies 100, 170
Tariffs 171
Widdecombe Supply 506
Southern E.B. 64
Consultative Council ... 138, 621
Spain — Imports 144; Majorca Supply 666; Narcea Thermal 709.
Spring Mnfrs. Research 68
Steam Tables International ... 237
Steelworks:
Arc Furnace Control, A. D. Bartho 871
Grid Connected 521
Integrated Bilston 557
Mercury Arc Converter Drives, P. P. Baines 219
Spencer Hotstrip 643
Templeborough Arc 521
Strikes 101, 620, 624, 664
Substations:
Pentir 273
Remote Control 862
Sudan — Sennar Scheme 824
Superconductors 623, 639
Supply Industry Finance 743
Swimming Pools 64, 546
Swaziland — Edwaleni 863; World Bank Investigation 31.
Sweden — Appliance Labelling 703; Demand Estimate 666; Industry 587; Stalon H.E. 627; Steam Plans 70; Telephone Record 549; Trade Mission 272, 964.
Synchrotron Supply Study, J. Switzman 675

Tariffs, Domestic — P. Schiller 479; D. H. Parry 601.
Tariffs 135, 170, 171, 383, 428, 584, 621, 962
Telephone Control of Heating, E. W. Anderson, P. F. Gunning and P. Schiller 517
Telephone Electronic Exchange ... 722
Telstar Satellite 118
Testing Synchronous Machines, D. D. Stephen 257, 323
Thailand — Nam Pong Loan ... 863
Theory Generalisation, Prof. J. E. Parton 155, 196
Thermometers Contact — Rectifier Control 128
Tin Research Institute 21
Trade, Around the, by Peregrin 87, 225, 365, 526, 689, 843
Training Supervisors 566
Transformer Impedance Comparator, R. K. Simmonds and P. G. Bhagwat 877
Transformer Magnetic Flux ... 946
Transformer Tanks — Aluminium, E. Brook and J. S. Haggitt 183
Transformers, Capacitor Voltage, N. Ashton 441
Transmission Lines:
Bristol — Iron Acton ...202, 469, 929
Capacity 70,000MW. 309
Conductor Size 400kV., G. C. Gracey 229
Cruachan 817
Galloping Conductors 120
Live Maintenance, R. A. York ... 149
Lovedean — Alton 818
Lydd — Bolney 30, 744
Midlands 858
Planning 799
Radar Fault Location 853
River Dee Crossing 784
River Forth Crossing 581
River Severn Crossing 956
River Tamar Crossing 929
Sizewell — Sundon 134
Southern England ... 661, 706, 930, 966
Trossachs 379
Tyne Towers 427
West Banff — Strathbogie ... 26
Whitfield — Crewe 239
Trinidad — Industry 747; Report 509, 967; Tariffs 747.
Turbine Design 500MW. 719
Turbo-alternators Group 202
Turkey — Keban H.E. 385; Sariyar H.E. Loan 431; Tuncbilek Thermal 666.

Uganda — Hospital Supply 549; Kenya Dispute 105, 140; Nile Festival 505.

Valve Replacement Care, B. Court 224
Voltage Surge Detector 262

Wages and Salaries 26, 27, 66, 137, 503, 505, 702, 742, 817, 857, 894, 899, 928, 962
Water Heating — Off Peak 58
Wiring:
Building Methods, J. Mellanby ... 941
Cancer Research 113
Commonwealth Institute 720
Farm Buildings 887
Future Pointers 16
Houses Future Work 468
Imperial College, B. J. Cory ... 755
Inspection Drive 99
Jacked Buildings 83
Notes by Megohm 49, 121, 189, 263, 329, 411, 489, 569, 647, 728, 805, 883, 949
Prefabricated Buildings 98
Roof Downwards 83
Rules Amendments 164
World Bank 427
World Power Conference 651, 694, 744, 803

X-Ray Plate — New 842

Year 950
Yorkshire E.B. 26, 269, 896
Computer 704, 780
Grimsby H.Q. 505
Tariffs 962
Yugoslavia — Bajina Basta H.E. Loan 31, 105.

INDEX TO MANUFACTURERS

A.I. Welders 99
Abacus Municipal 813
ACE — Hartons 858
ACEC (Ireland) 894
Acme Domestic 890
Acrastyle Ltd. 423
Addis 577, 616
Advance Components 660
Aerialite Ltd. 576, 896
Aeromark Co. 738
Aircraft Marine Products 316, 422, 617, 737, 926
Allen West 341, 785, 813
Allen, W. H. 780
Alpha Mnfg. 670
Alpha Wire Corpn. 133
Alto Instruments 743
Amber Oils 235
AMP (G.B.) 737
Andrews Housewares ... 23, 268, 504
ANTEX 178
Apton Ltd. 304
Arc Mnfg. 743
Arco Rewinds 237, 375
Ascog Ltd. 61
Associated Electrical Industries 26, 34, 103, 128, 133, 173, 198, 202, 239, 340, 380, 426, 428, 490, 523, 524, 552, 781, 823, 854, 860, 898, 928
— Automation 426, 860
— Birlec 25, 224
— Cable Division ...235, 700, 959
— Cables and Lines 236, 341, 380, 744
— Electronics 103, 132
— Heating Dept. 340
— Heavy Plant Division ... 426
— Herr 25
— Hotpoint ... 134, 464, 580, 705, 779, 784
— Instrumentation 23
— Lamp and Lighting ... 34, 97, 239, 244, 377, 457, 504, 820
— Manchester 67, 889
— Motor and Control ... 234, 342, 469, 548
— Reorganisation ... 426, 545
— Simplex (Africa) 896
— Telecommunications ... 338
— Turbine — Generator ... 103
— Woolwich 585
Astral Switchgear 507
Astaron Electronics 620
Atlas Lighting ... 30, 85, 139, 144, 273, 342, 344, 457, 464, 498, 542, 547, 577, 641, 657, 736, 746, 777, 897, 958, 965
Austin Taylor 166
Automatic Control Eng. 858
Avelev Electric 436
Avo Ltd. 926

Babcock and Wilcox 383, 548
Baggs, John 378
Bakelite Ltd. 465
Baldwin, H. J. 131
Barton Conduits 960
Bastian and Allen 64, 202, 546
Bauknecht (G.B.) Ltd. 854
Bechenmacher, W. & Dr. K. ... 700
Becker, Geo. 854
Bell Telephone 302, 688
Belling & Co. 167, 342, 577
Belmos Co. 576
Benjamin Electric 274, 415, 498
BICC — Burndy 21
Bill Switchgear 958
Birmingham Combined Independents 239
Black and Decker ... 131, 198, 233, 777
Blackburn Electronics ... 926, 927
Blackwell, F. C. 199
Bolton, Thos. 579
Bowthorpe 130
B. & R. Relays 500, 891, 937
Brandenburg Ltd. 267, 926, 960
Brattell Electric Co. 22
Bray Developments 62
Bray, E. N. 306
Bristol Siddeley ... 506, 563, 702, 744
British Aluminium 699
British Central Electrical 198
British Driver Harris 133
British Geon 34, 961
British Insulated Callenders Cables 67, 135, 138, 144, 168, 262, 272, 278, 310, 428, 429, 702, 784, 822, 861, 928, 929, 933, 964
British Insulated Callenders Construction 581, 744, 823, 928
British Monorail 888
British Oxygen 578
British Resin Products 618
British Rototherm 540
Britmac 236
Brook Motors 144, 377, 481
Brookhirst-Igranic 85
Brown-Boveri 743
Bruce Peebles 379, 664, 703, 876, 896
Brunlec Appliances 698
Brush Beryllium 505
Brush Crystal 200
Brush Electrical Eng. 20, 103, 270, 563, 888
Brydor Products 737
B.S.A. Electrics 178
BSR Ltd. 664

Cable Covers 136, 657, 926
Cambridge Instruments 167
Canning, W. 134
Carr Fastener 462
Carron Co. 656
CAV Ltd. 776
Centrax Ltd. 656, 774
Chalmers, Andrew & Mitchell ... 583
Chamberlain and Hookham ... 135
Chilton ... 130, 233, 307, 355, 378, 463, 548, 855
Chloride Batteries ... 168, 545, 812, 898
CIBA (A.R.L.) 133
Clark Chapman 429
Clark Clutch 234
Cockburn & Gunn 423, 616
Cole, R. H. 133, 224, 465, 579
Collaro 511
Colt Ventilation 657, 789, 812
Concrete Ltd. 98
Contronics Ltd. 96, 200
Cooper Electroheat Ltd. 707
Corner, G., Ltd. 700
Cossor 65, 270, 670
Couper Electrical 462
Courtney Pope 199, 376
Crane Packing 812, 815
Crater Products 423
Creators Ltd. 233, 736
Cressall Mnfg. 505
Crompton Parkinson ... 29, 102, 205, 268, 339, 458, 462, 548, 622, 783, 813
Crypton Equipment 542
CSF (U.K.) 859

Dale Electric 819
Dartronic Ltd. 306
Davidson & Co. 585
Davis Sheet Metal 22
Dawe Instruments 890
Defrost-O-Matic 62
Degenhardt & Co. 235
De La Rue Frigistor 382
Delta Enfield 294
Denham and Morley 199
Dewhurst & Ptnr. 62
Dewrance & Co. 368
"Diamond H" Controls ... 29, 344
Digital Measurements ... 130, 891
Dimplex 338
Donovan Electric 62, 959
Dorman & Smith 236, 960
Dubesco Laboratories ... 305, 855
Dukes and Briggs 958
Duomatic 307
Du Pont 201
Durie, James N. 750
Dust Control Processes 738

Easco Electrical 617
Easipower 22, 581
East Lancs Chemical 232
ECC (Moulded Breakers) 272
Efco 294
Ekco-Ensign 376, 542, 577, 958
Ekco Heating 97, 199
Elcontrol 168, 463, 541, 813
Electric Construction Co. ... 144, 228, 622, 774
Electric Elements (Willenhall) 134, 202
Electric Transmission ... 138, 929
Electrical Apparatus Co. 474
Electrical Division of Radiation ... 580
Electrical Drive Applications ... 490
Electrical Remote Control 854
Electroloid 134
Electrolube 462
Electrolux 962
Electroneon Signs 504
Electroway Heaters 960
Elkay 424
Elliott 136, 202, 547, 820, 932, 966
Eltron (London) 618
EMI 343, 703
Enfield Phelps Dodge 103
Engel and Gibbs 166
Engelhard Industries 133, 891
English Electric 9, 22, 23, 94, 101, 128, 173, 174, 203, 266, 270, 288, 306, 309, 426, 427, 429, 506, 540, 617, 618, 657, 702, 736, 743, 744, 782, 814, 823, 858, 874, 929, 944
Domestic Appliances 576
Ensel Electric Co. 99
ERG Industrial 198
Ericsson Telephones 500
ESWA Ltd. 498
Eutectic Welding 305, 618
Everett Edgcumbe 664, 699
Evershed & Vignoles ... 623, 778
Expanded Metals 302, 505
Expert Industrial Controls ... 97, 268, 542, 812
Explosive Power Tools 199
Express Lift 137

Falk Stadelmann 61, 306
Farnell Instruments 23
Federated Foundries 577
Ferranti ... 23, 204, 342, 377, 382, 503, 820, 853, 882, 961
Ferranti, Denis 24
F.G.S. Ltd. 244, 380
Field, H. W. & Son 422, 541
Fielden Electronics 60, 234, 958
Fireproof Tanks 21
Firth Cleveland 167
Firthbourn Ltd. 777
Fisher Ludlow 91
Flatley (Ireland) 132
Foster Transformers 172, 914

Frost, H., & Co. 268
Fuller Electric 29

Gardom and Lock 657
Garringtons Ltd. 743
General Electric of America 178, 304, 362, 469, 579, 581, 705, 741, 815, 860, 862
General Electric Co. 20, 28, 134, 202, 237, 274, 289, 380, 624, 850
Domestic Eqpt. 307
Engineering ... 98, 206, 271, 304, 506, 546, 859
Exterior Lighting 237
Home Products 664
Lighting & Eqpt. ... 27, 100, 307, 309, 381, 424, 584, 617, 736, 779, 783
Osram ... 422, 457, 541, 624, 855
Telecommunications ... 706, 745
Telephone Division 429
Gent & Co. 178
Giesler, C. F. R., Ltd. 776
Glendor Research 506, 541
Glowburn Fires 378
GM Power Plant 499
Golmet Ltd. 699
Gowshall Ltd. 777
Guest, Keen & Nettlefolds 965
Gulton Industries ... 96, 306, 368, 866
GWB Furnaces 94, 523, 539

Hackbridge and Hewittic 139
Haden, G. N., & Sons 656
Hampson Industries 552
Hamworthy Eng. 504
Harrison & Pinder 585
Hartons 858
Harvey, J. J., and Pressurecast ... 103
Hawke Cable Glands ... 166, 617
Hayward Turbine Plastics ... 98, 815
Heating Investments 166
Heatrae 64
Heatstore 167, 338, 388
Heenan and Froude 92, 481
Hellermann ... 34, 130, 304, 338, 699, 700
Herrmann's Shaver Centre 616
Herzbi Ltd. 927
Heyes & Co. 61, 130, 500, 927
Hill Porter (Newcastle) 425
Hilti (Manchester) 474
Hird Brown 96, 200, 376, 903
Hirst Electronic 377
Holophane 199, 542, 700
Honeywell Controls 96, 423, 640
Hook, Lionel 201
Hoover ...173, 382, 422, 623, 781, 965
Horstmann Gear 60
Howell, V. G. 552
Hughes, F. A. 68
H.V.E. (Electric) 670
Hydraulic Components 738

Imperial Chemical Industries 465, 579
Imperial Metal Industries 539
Indesit Ltd. 814, 903
International Nickel 465, 653, 815
International Rectifier 61, 198, 232, 507, 617, 621
International System Control 204, 343
Isora Ill. Ceilings 171, 233

Jobling, James A. 738
Johnson Matthey 201, 302
Johnson and Phillips ...128, 309, 310
Jones & Stevens 500
Joyce Loebl 278
J. & S. Pumps 340

Kango Electric Hammers 266
Kangolone Ltd. 423, 462
Kelvin-Norton 711
Kelvinator 24
Kent Floor Machine Co. 270
Kent, Geo. 232, 545, 743, 963
Kenwood 498
Key Eng. 778
Keyswitch Relays 29, 500

Labgear Ltd. 578
Lancashire Dynamo E.P. 338, 382, 423, 578
Lancashire Dynamo Nevelin ... 577
Landis & Gyr 425
Laurence Scott 69, 238, 333
Lec Refrigeration ... 101, 233, 812, 891
Leo Computers 545
Lesser, D. C., Ltd. 60
Lexor Electronics 926
Leyris Steel Industries 814
Light Soldering Developments ... 616
Livingston Control 270
Loblite Ltd. 424
Londex ... 98, 202, 338, 500, 855
Lostock Heating 278
Loughborough Oven Wks. 618
Lucas, Joseph 927
Lumitron 234, 499

McAlpine Chemical Co. 504
Magicook Appliances ...424, 618, 656
Magnavox Electronics 511
Main, R. & A. 267
Mantel and Butterworth 26
Marco Refrigerators 503, 585, 620, 663, 741, 858, 928
Marconi 380, 388, 827
Marryat and Place 166
Martindale Electric 273, 812
Mather and Platt 29, 172, 856
Mawdsley's Ltd. 267, 506
M. & C. Switchgear 462
Meaker Co. 235
Measuring Instruments (Pullin) ... 339
Meritus (Barnet) 578
Mervyn Instruments 343
Metal Industries 108
Metco Ltd. 133
Metway Electrical Industries 96, 240, 377, 541, 892
Microcell Ltd. 465, 961
Midland Electric Mnfg. ... 338, 779
Midland Silicones 21, 815
Miller, Gordon 578
Mitchell Construction 28
MK Electric 339, 698
ML Aviation 21, 960
Modern Eqpt. 376
Monsanto Chemicals 738
Morgan Components 699
Morganite Resistors 892
Morleys Electrical Services ... 166
Morphy-Richards 344, 463, 737, 778, 966
Morris, John 24, 704, 821
M.T.E. Control Gear 914
Mullard 50, 168, 578, 854
Multicore Solders 618
Murex 201
Murphy Radio 932
Myrod Equipment 854

Nagard Ltd. 660
Nalder Bros. 268, 583
Nash and Thompson 958
Negretti and Zambra 737
Neldco Processes 736
Nettle Accessories ... 198, 542, 776, 891
New Lines Marketing 542
Nife Batteries 240, 814
Norel E. Appliances 62, 232
Nottingham Electronic Valve ... 62
Novenco 511
Novum Ltd. 379
NSF Ltd. 96

Oldham & Sons 552

Parkinson Cowan 780
Parsons, C. A. 202, 427, 429, 621, 623
Parvalux 698
Paynes Jiffytape 465, 937
Permali 19, 29
Philips 132, 167, 305, 458, 698, 776, 856, 897, 897
Photronic Controls 232
Picard, Henri & Frere 198
Pifco Ltd. 425, 616
Pike, Geo. 552
Pirelli-General 138, 663, 823
Plessey ... 23, 60, 482, 500, 624, 959
Polypenco Ltd. 21, 579
Powell Duffryn 167, 504, 546
Power Equipment 507
Pressed Steel 67, 304, 469, 927
Printing and Paper Drives 333
Pritchett & Gold 234

Radiation Catering Eqpt. 861
Radiovisor Parent 958
Rank Bush Murphy 932
Redman Tools 892
Refrigeration Appliances 388
Reik, W. 201
Reliance Controls 316
Remington Rand 60
Research and Control Ins. ... 132, 499
Revo 22, 131, 552
Reyrolle 64, 270, 378, 540
Rheostatic Co. 820
Richardsons Westgarth 205
Ringway Lighting 378
Robertson Thain 235
Robinson, D., & Co. 500
Rolls Razor 307, 469
Rolls-Royce 288, 814
Rotork Eng. 618
Rotunda Ltd. 235
Rowlands Electrical Accessories ... 233
Rubery Owen 377
Rustrak Instruments ... 61, 779

Sadia Water Heaters ... 58, 199
Salford Electrical Instruments ... 266
Sanders, Wm., & Co. 339
Sangamo Weston ... 34, 306, 657, 891
Sankey-Sheldon 85
Santon 61, 425
Satchwell Controls 820
Saunders, N. (Metal P.) ... 132, 376
Schavarien, Louis J. 130
Scientific Products 465
Scott Bader 738
Scottish Cables 505
Sel-Rex Corpn. 302
Senior Electronic Eqpt. 268
Serck Controls 237
Servo Consultants 278
Severn Lighting 698
S.G.S.-Fairchild 898
Shandon Scientific 267
Shawford Control 200, 304, 960
Sheerlite Shades 540
Shimwell Alexander 198
Siebe, Gorman 132
Sigmund-Pulsometer 624
Simmonds Relays 629
Simon, Henry 232
Simplex Electric 267, 970
SLR Electric 937
Smith, Herman 737
Smiths 131, 132, 498
Solus Schall 499
Sound Diffusion (Auto-Thermatic) ... 862
South Wales Switchgear 27, 370, 625, 895
Southport Electrical 273
Spembly Ltd. 302
Square, D. 74, 104, 168, 543
Stal-Laval 665
Standard Telephones ... 69, 108, 173, 623. 858, 899, 959

Steelweld Ltd. 578
Steelworks Automation 178
Stephenson Clarke 579
Sterling Domestic Appliances ... 97
Sterne, L., & Co. 239
Strachen and Henshaw 929
Sturtevant Eng. 858
Sulzer Bros. 776, 898
Sumlite Controls 131
Sumo Pumps 200
Sunbeam Electric 234, 616, 892
Supracote Development 201
Sutcliffe & Clarkson 540
Symonds, R. H. 499
Synchronome Co. 827

Taylor Electrical Instruments 62, 423, 541, 890
Tektronix 470
Telcon Magnetic Cores 929
Telcon Metals 379
Telegraph Condenser 22
Temperature Ltd. 777
Texas Instruments 235, 813
Thermodare 272
Thermotank 368
Thompson, John 429, 898
Thorn ... 74, 136, 200, 268, 305, 343, 927
Thornycroft, John I. 783
Thorpe, F. W. 424
T.M.C. Co. Ltd. 96
TME (Electrical) 959
Troughton and Young ... 199, 892
Turner Bros. 133
Turners Asbestos Cement 743
Tyer 60
Tygadure Ltd. 368, 579
Tyrad Electric 272, 499

UAM Gp. 813
Ultra Electronics 511, 815
United Insulator 278
Unity Heating... 305
U.S. Dynamatic Corpn. 623
U.S. Magnet and Alloy Corpn. ... 133

Valor Gatehill 378
Venner 60, 339, 656
Victor Products 234
Vidor 545, 620
Viking Husqvarna 540

Wallacetown Eng. 424, 426
Walsall Conduits 66, 74, 144
Walterisation Co. 302
Ward and Goldstone 745
Wardle Eng. 856
Weir, G. & J. 68
Weir-Westgarth 382
Welmec Corpn. 855
Westbrook, A. G. S., Ltd. 814
Westinghouse Brake 22, 130, 306
Westinghouse E. Corpn. ... 10, 228, 274, 374, 491, 639, 740
Wilkins and Mitchell ... 306, 656
Winder, R. F. 903
Wolf E. Tools ... 74, 305, 547, 777
Wolsey Electronics 436
Wynbourne-Satoba 618

Yale and Towne Mfg. 384
York Shipley 94

Zeal, G. H. 128